

Ser. No. 09/581,064  
RCA-88783

**Listing and Amendments to the Claims**

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method for managing access to a signal representative of an event of a service provider, said method comprising:
  - (a) receiving said signal in a smart card, said signal being scrambled using a scrambling key;
  - (b) receiving, in said smart card, data representative of a first seed value;
  - (c) generating, in said smart card, said scrambling key using said first seed value ~~received in said smart card~~ and a second seed value in a predetermined function, whereby secret sharing is implemented, said second seed value being permanently stored in said smart card; and
  - (d) descrambling, in said smart card, said signal using said generated scrambling key to provide a descrambled signal.
2. (Previously Presented) The method of Claim 1 wherein said first and second seed values are points on a Euclidean plane.
3. (Previously Presented) The method of Claim 2 wherein the step of generating said scrambling key comprises calculating the Y-intercept of a line formed on said Euclidean plane by said first and second seed values.
4. (Previously Presented) The method of Claim 3 wherein said smart card has a card body having a plurality of terminals arranged on a surface of said card body in accordance with one of ISO 7816 and PCMICA card standards.
5. (Previously Presented) A system for managing access between a service provider and a device having a smart card coupled thereto, said device performing the steps of:

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- (a) receiving from the service provider a signal representative of an event, said signal being scrambled using a scrambling key;
- (b) receiving from the service provider data representative of a first seed value, said first seed value being selected from a Euclidean plane;
- (c) coupling said scrambled signal and said first seed value, both received from the service provider, to said smart card, said smart card having a means for access control processing; said access control processing means comprising means for generating said scrambling key by calculating the Y-intercept of a line on said Euclidean plane by said first seed value and a second seed value which is permanently stored in said smart card and means for descrambling, whereby secret sharing is implemented, within said smart card, said signal using said generated scrambling key to generate a descrambled signal; and
- (d) receiving from said smart card said descrambled signal.

6. (Previously Presented) The system of Claim 5 wherein the device is a set-top box.

7. (Previously Presented) The system of Claim 5 wherein the device is a digital television.